

AMENDMENTS TO THE SPECIFICATION

The following is a marked up version of each replacement paragraph and/or section of the specification in which underlines indicate insertions and strikethroughs indicate deletions.

Please replace the paragraph on page 16, containing lines 6-17 with the following paragraph:

C | For any node v (e.g., $S1$), $\text{net-transition-tree}(v)$ stores all acyclic paths from v to other vertices in its SCC. The tree has v as its root, and its height is equal to the number of nodes in the SCC containing v . Children of v are all the nodes in its SCC that have a direct edge from v . In general, the children of any node $[[\mu]] \underline{u}$ (e.g., $S1-S7$) are all the nodes in its SCC that have a direct edge from node $[[\mu]] \underline{u}$. Note that a node may appear multiple times in this tree. That is, each node has a label where the labels are not necessarily unique. The root node has label v . A node labeled $[[\mu]] \underline{u}$ has as many children as the outdegree of u (number of edges leaving u) in its SCC, and these children are labeled with the corresponding nodes in the SCC.